



Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

November 29, 2018

Ms. Doris Chen & Lewis Weinstock
U.S. Environmental Protection Agency - OAQPS
109 T.W. Alexander Drive, Mail Code: C304-06
RTP, NC 27709
Project Name: EtO Region 5

Dear Ms. Doris Chen & Lewis Weinstock,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 11/15/18 11:09 through 11/21/18 10:22.

The test results in this report are in compliance with NELAC accreditation requirements for the certified parameters. All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.



CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency - OAQPS

109 T.W. Alexander Drive, Mail Code: C304-C

RTP, NC 27709

ATTN: Ms. Doris Chen & Lewis Weinstock

PHONE: (919) 541-4957 **FAX:** -

FILE #: 0344.00

REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

ANALYTICAL REPORT FOR SAMPLES

<u>SampleName</u>	<u>LabNumber</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
WB Warehouse	8111508-03	Air	11/14/18 10:00	11/15/18 11:09
WB Trip Blank	8111508-04	Air	11/14/18 10:00	11/15/18 11:09
WB Village Hall	8112012-01	Air	11/17/18 10:07	11/20/18 09:55
WB Warehouse C1	8112012-02	Air	11/17/18 09:57	11/20/18 09:55
WB Warehouse C2	8112012-03	Air	11/17/18 09:57	11/20/18 09:55
WB Village Hall C1	8112113-01	Air	11/20/18 09:30	11/21/18 10:22
WB Village Hall C2	8112113-02	Air	11/20/18 09:29	11/21/18 10:22
WB Warehouse	8112113-03	Air	11/20/18 09:21	11/21/18 10:22
Gower ES	8112113-04	Air	11/20/18 10:36	11/21/18 10:22
Gower MS	8112113-05	Air	11/20/18 09:39	11/21/18 10:22
Willow Pond Park	8112113-06	Air	11/20/18 10:10	11/21/18 10:22
Watertower	8112113-07	Air	11/20/18 09:54	11/21/18 10:22
Hinsdale South HS	8112113-08	Air	11/20/18 10:25	11/21/18 10:22
West Neighborhood	8112113-09	Air	11/20/18 10:45	11/21/18 10:22

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AQS SITE CODE:

SITE CODE: EtO Region 5

Description: WB Warehouse

Lab ID: 8111508-03

Sampled: 11/14/18 10:00

Pressure @ Receipt: 2.00" Hg

Canister #: A21028

Received: 11/15/18 11:09

Comments: Start 10:00 11/13/18 Probe #10315

Analyzed: 11/27/18 02:53

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	1.31	2.36		0.0453

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REPORTED: 11/29/18 11:59

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AQS SITE CODE:

SITE CODE: EtO Region 5

Description: WB Trip Blank

Lab ID: 8111508-04

Sampled: 11/14/18 10:00

Pressure @ Receipt: 29.50" Hg

Canister #: 5037

Received: 11/15/18 11:09

Comments: Trip Blank

Analyzed: 11/27/18 03:58

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0453

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REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: WB Village Hall

Lab ID: 8112012-01

Sampled: 11/17/18 10:07

Pressure @ Receipt: 2.00" Hg

Canister #: A21096

Received: 11/20/18 09:55

Comments: Start 10:24 11/16/18 Probe #10313

Analyzed: 11/27/18 13:44

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	0.456	0.82		0.0453

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SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: WB Warehouse C1

Lab ID: 8112012-02

Sampled: 11/17/18 09:57

Pressure @ Receipt: 2.50" Hg

Canister #: SAT085

Received: 11/20/18 09:55

Comments: Col 1 Start 10:09 11/16/18 Probe #10314

Analyzed: 11/27/18 14:47

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	1.00	1.81		0.0453

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REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: WB Warehouse C2

Lab ID: 8112012-03

Sampled: 11/17/18 09:57

Pressure @ Receipt: 3.50" Hg

Canister #: SAT114

Received: 11/20/18 09:55

Comments: Col 2 Start 10:09 11/16/18 Probe #10315

Analyzed: 11/27/18 15:49

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	1.00	1.81		0.0453

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REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: WB Village Hall C1

Lab ID: 8112113-01

Sampled: 11/20/18 09:30

Pressure @ Receipt: 2.00" Hg

Canister #: A21102

Received: 11/21/18 10:22

Comments: Col 1 Start 09:32 11/19/18 Probe #10315

Analyzed: 11/27/18 18:57

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	3.38	6.10		0.0453

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FILE #: 0344.00

REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: WB Village Hall C2

Lab ID: 8112113-02

Sampled: 11/20/18 09:29

Pressure @ Receipt: 3.50" Hg

Canister #: SAT013

Received: 11/21/18 10:22

Comments: Col 2 Start 09:33 11/19/18 Probe #10315

Analyzed: 11/27/18 19:59

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	3.49	6.30		0.0453

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FILE #: 0344.00

REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: WB Warehouse

Lab ID: 8112113-03

Sampled: 11/20/18 09:21

Pressure @ Receipt: 3.50" Hg

Canister #: 5077

Received: 11/21/18 10:22

Comments: Start 09:20 11/19/18 Probe #10314

Analyzed: 11/27/18 23:06

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	3.66	6.61		0.0453

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REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: Gower ES

Lab ID: 8112113-04

Sampled: 11/20/18 10:36

Pressure @ Receipt: 3.50" Hg

Canister #: SAT092

Received: 11/21/18 10:22

Comments: Start 10:36 11/19/18 Probe #10293

Analyzed: 11/28/18 00:08

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0453



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FILE #: 0344.00

REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: Gower MS

Lab ID: 8112113-05

Sampled: 11/20/18 09:39

Pressure @ Receipt: 2.00" Hg

Canister #: 18879

Received: 11/21/18 10:22

Comments: Start 09:46 11/19/18 Probe #10311

Analyzed: 11/28/18 01:11

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0453

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FILE #: 0344.00

REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: Willow Pond Park

Lab ID: 8112113-06

Sampled: 11/20/18 10:10

Pressure @ Receipt: 2.50" Hg

Canister #: SAT089

Received: 11/21/18 10:22

Comments: Start 10:10 11/19/18 Probe #10294

Analyzed: 11/28/18 02:13

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0453

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REPORTED: 11/29/18 11:59

SUBMITTED: 11/15/18 to 11/21/18

AQS SITE CODE:

SITE CODE: EtO Region 5

Description: Watertower

Lab ID: 8112113-07

Sampled: 11/20/18 09:54

Pressure @ Receipt: 2.00" Hg

Canister #: SAT169

Received: 11/21/18 10:22

Comments: Start 09:59 11/19/18 Probe #10312

Analyzed: 11/28/18 03:15

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0453

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REPORTED: 11/29/18 11:59

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AQS SITE CODE:

SITE CODE: EtO Region 5

Description: Hinsdale South HS

Lab ID: 8112113-08

Sampled: 11/20/18 10:25

Pressure @ Receipt: 4.00" Hg

Canister #: A21051

Received: 11/21/18 10:22

Comments: Start 10:25 11/19/18 Probe #10076

Analyzed: 11/28/18 04:18

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0453

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AQS SITE CODE:

SITE CODE: EtO Region 5

Description: West Neighborhood

Lab ID: 8112113-09

Sampled: 11/20/18 10:45

Pressure @ Receipt: 3.00" Hg

Canister #: SAT025

Received: 11/21/18 10:22

Comments: Start 10:45 11/19/18 Probe #10310

Analyzed: 11/28/18 05:20

Air Toxics by EPA Compendium Method TO-15

<u>Analyte</u>	<u>Results</u>		<u>Flag</u>	<u>MDL</u>
	<u>ppbv</u>	<u>ug/m³</u>		<u>ppbv</u>
Ethylene oxide	ND	ND	U	0.0453

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AQS SITE CODE:

SITE CODE: EtO Region 5

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Batch B8K2604 - Summa Canister Prep

Blank (B8K2604-BLK1)

Prepared: 11/20/18 Analyzed: 11/26/18

Ethylene oxide	ND	ppbv				U
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Batch B8K2704 - Summa Canister Prep

Blank (B8K2704-BLK1)

Prepared: 11/20/18 Analyzed: 11/27/18

Ethylene oxide	ND	ppbv				U
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Duplicate (B8K2704-DUP1)

Source: 8112012-02 Prepared: 11/17/18 Analyzed: 11/27/18

Ethylene oxide	0.999	ppbv	1.00	0.0600	25	
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Duplicate (B8K2704-DUP2)

Source: 8112012-03 Prepared: 11/17/18 Analyzed: 11/27/18

Ethylene oxide	1.03	ppbv	1.00	2.40	25	
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Duplicate (B8K2704-DUP3)

Source: 8112113-01 Prepared: 11/20/18 Analyzed: 11/27/18

Ethylene oxide	3.37	ppbv	3.38	0.329	25	
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Duplicate (B8K2704-DUP4)

Source: 8112113-02 Prepared: 11/20/18 Analyzed: 11/27/18

Ethylene oxide	3.40	ppbv	3.49	2.42	25	
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REPORTED: 11/29/18 11:59

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AQS SITE CODE:

SITE CODE: EtO Region 5

Analyte	Result	Units	% Difference	Limit (%)	Notes
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Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 1811061

Calibration Check (1811061-CCV1)

Prepared & Analyzed: 11/26/18

Ethylene oxide	2.79	ppbv	9.5	30.00
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Sequence 1811063

Calibration Check (1811063-CCV1)

Prepared & Analyzed: 11/27/18

Ethylene oxide	2.74	ppbv	9.8	30.00
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FILE #: 0344.00

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AQS SITE CODE:

SITE CODE: EtO Region 5

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: The test results meet all requirements of NELAC; however the following analytes are not accredited: 1,2,4-trimethylbenzene, 1,2-dibromoethane, 1,2-dichloropropane, 1,3,5-trimethylbenzene, 1,3-butadiene, acetylene, acrolein, bromochloromethane, bromodichloromethane, bromoform, carbon disulfide, dibromochloromethane, dichlorodifluoromethane, dichlorotetrafluoroethane, ethyl acrylate, ethyl tert butyl ether, hexachloro-1,3-butadiene, octane, propylene, tert amyl methyl ether, tetrachloroethylene, tran-1,2-dichloroethylene, trichlorofluoromethane, and trichlorotrifluoroethane.